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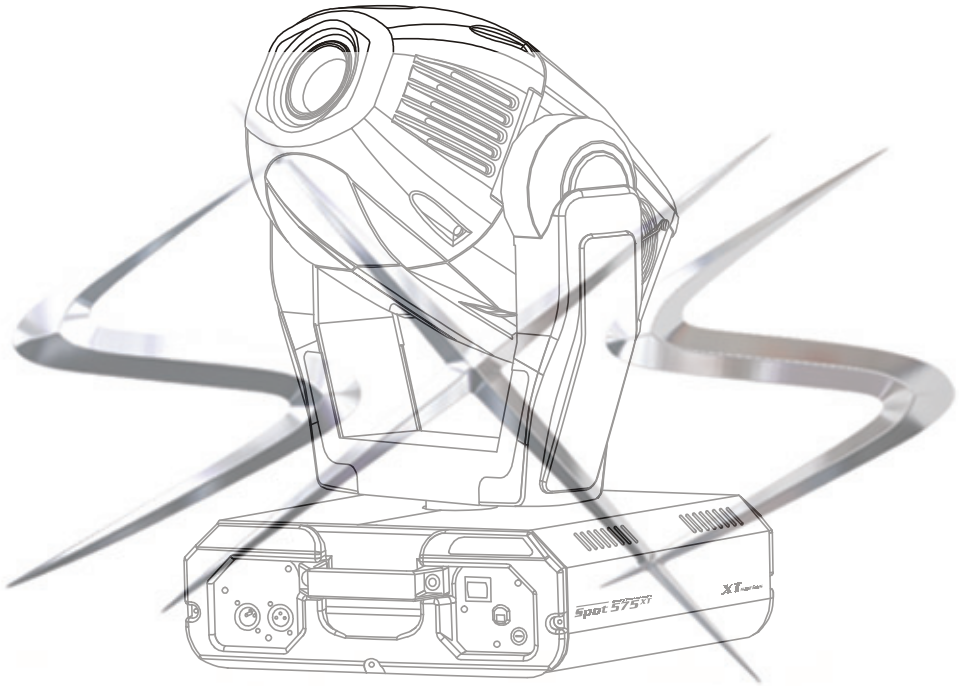
Moving Yoke Luminaire

Spot 575 XT



USER MANUAL

XT series

ROBE show lighting

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SPOT 575 XT

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CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOU INITIAL START - UP!

1. Safety instructions

Every person involved with installation and maintenance of this device have to:
- be qualilfied
- follow the instructions of this manual

CAUTION!
Be careful with your operations.
With a high voltage you can suffer
a dangerous electric shock when touching the wires!

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Important:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!

Make sure that the available voltage is not higher than stated on the rear panel.

Always plug in the power plug least. Make sure that the power-switch is set to OFF-position before you connect the device to the mains. The power-plug has to be accessable after installing the device.

Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.

This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.

The electric connection, repairs and servicing must be carried out by a qualified employee.
Do not connect this device to a dimmer pack.

Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.

During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

Do not touch the device's housing bare hands during its operation (housing becomes hot)!
For replacement use lamps and fuses of same type and rating only.

CAUTION ! EYEDAMAGES !
Avoid looking directly into the light source
It can cause eye irritations.

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This device is not designed for installation in residential areas. It was designed for indoor use only.

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

Never run the device without lamp!

Do not shake the device. Avoid brute force when installing or operating the device.

Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.

When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!

The minimum distance between light-output and the illuminated surface must be more than 2 meters.

Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture.

Always fix the fixture with an appropriate safety-rope. Fix the safety-rope at the correct holes only.

Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.

The lamp must never be ignited if the objective-lens or any housing-cover is open, as discharge lamps may explose and emit a high ultraviolet radiation, which may cause burns.

The maximum ambient temperature t_a = 40° C must never be exceeded. Otherwise, the lamp is switched off and the fixture is out of operation for 5 minutes.

CAUTION!
The lens has to be replaced when it is obviously damaged, so that its function is impaired, e. g. due to cracks or deep scratches!

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation!

CAUTION!
The lamp has to be replaced when it is damaged or deformed due to the heat!

Please use the original packaging if the device is to be transported.

Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, burns due to ultraviolet radiation, lamp explosion, crash etc.

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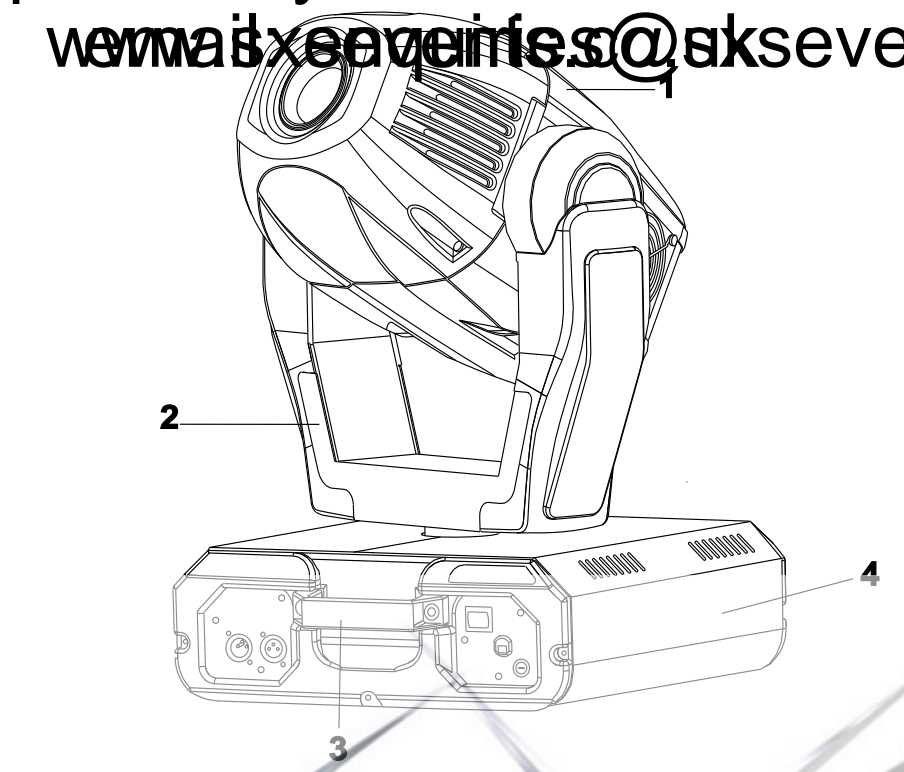
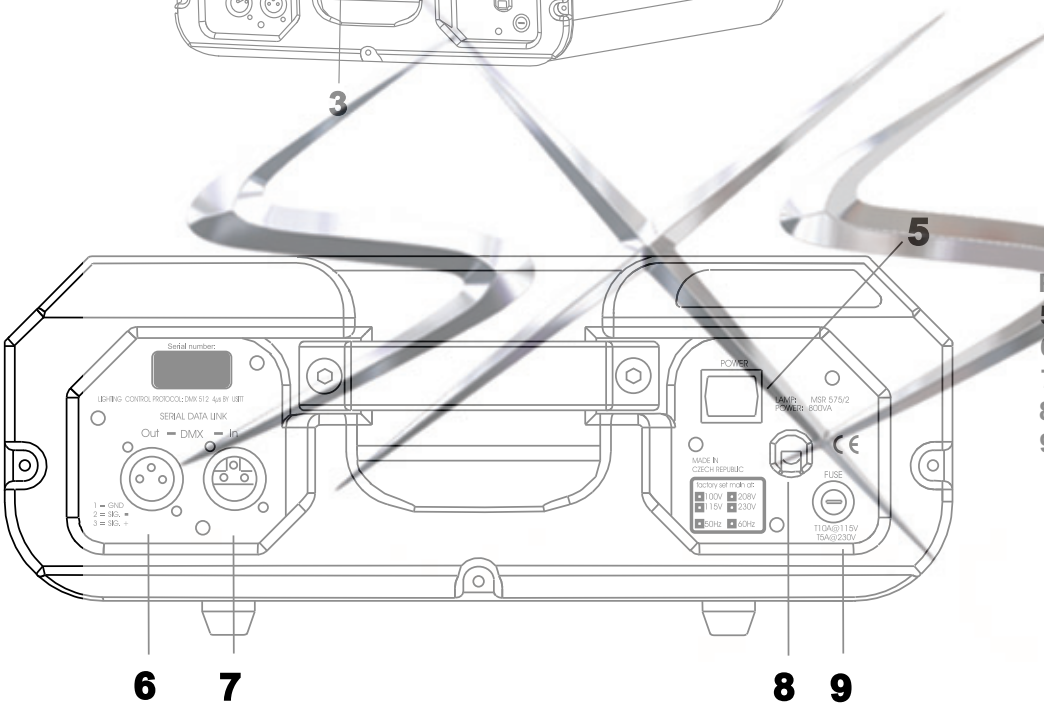
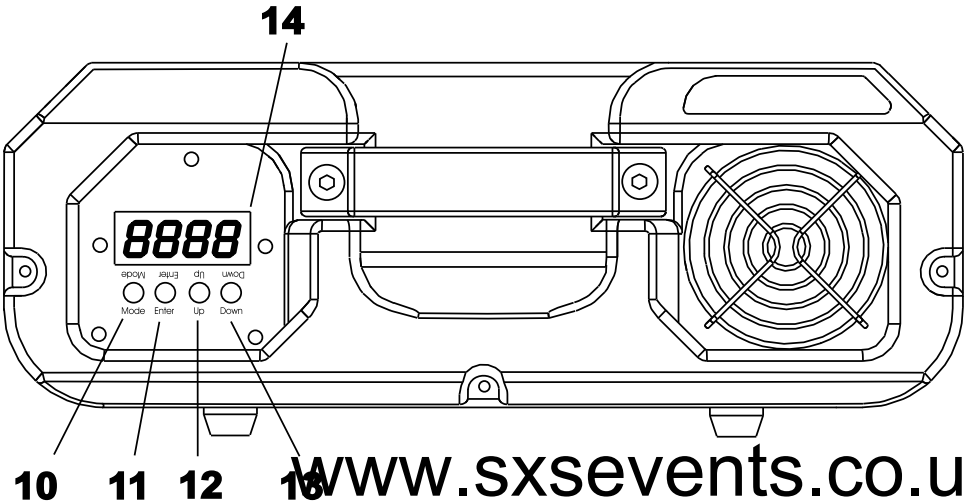
Description of the device



1 - Moving head
2 - Yoke
3 - Carry handles
4 - Base



Rear panel:
5 - Power switch
6 - DMX output
7 - DMX input
8 - Power cord
9 - Fuse holder



Front panel:
10 - Mode-button
11 - Enter-button
12 - Up-button
13 - Down-button
14 - Display

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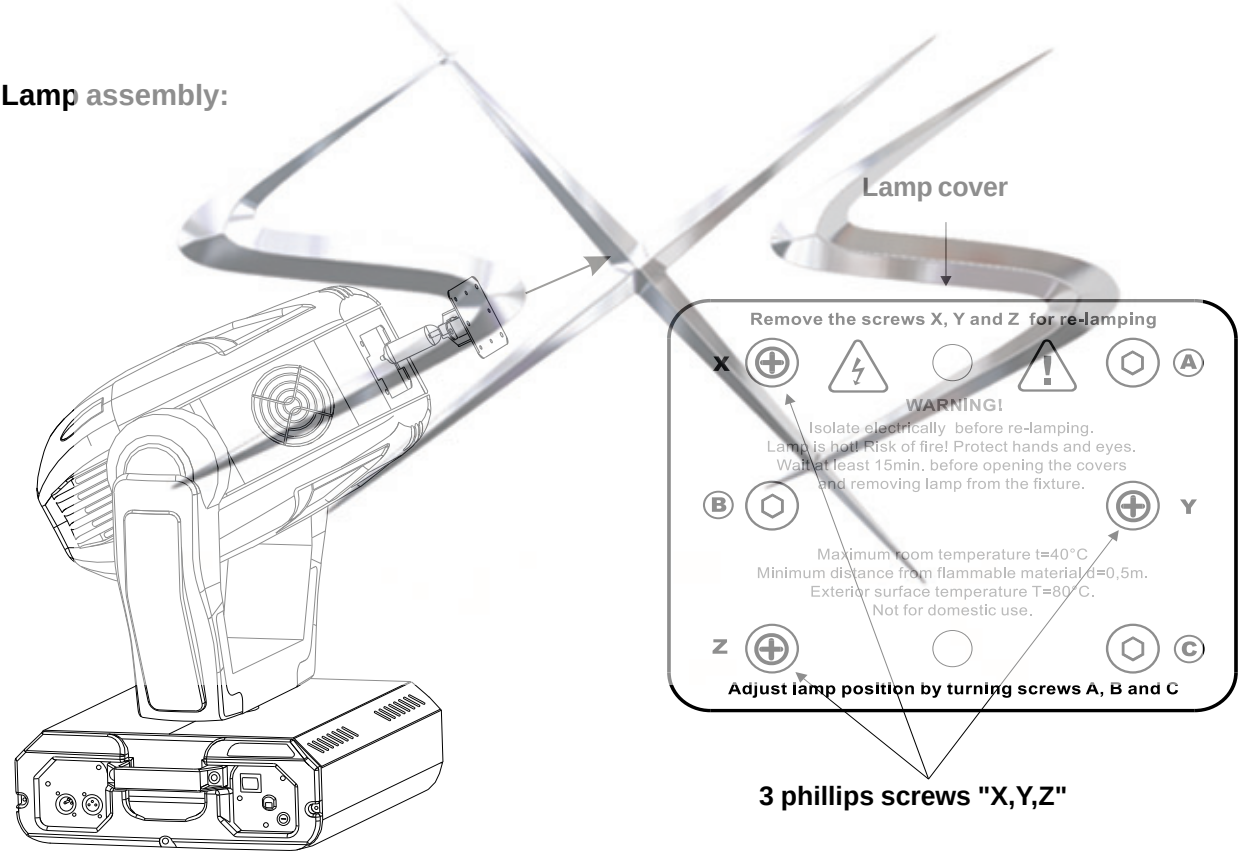
DANGER !
Install the lamps with the device switched off only.
Unplug from mains before !

To insert the lamp MSR 575/2 95V/575W GX-9,5 loosen the lamp cover at the rear of head (see the drawings) by removing the 3 fastening screws which are marked **"X,Y,Z"**.Carefully pull out the cover with the lamp socket assembly.If changing the lamp, remove the old lamp from the socket. Insert the lamp to the socket.
Do not install a lamp with a higher wattage! A lamp like this generates temperatures the device is not designed for.Damages caused by non-observance are not subject to warranty. Please follow the lamp manufacturer‘s notes!Do not touch the glass-bulb with bare hands during the installation! Make sure that the lamp is installed tightly into the lampholder system.
Reclose the lamp cover and tighten the 3 screws.
Before striking the lamp, reset the **"LAti"**and **"LASt"** counter s in the menu of the Control Board, by pressing the **"Up"** and **"Down"** buttons in one time and then confirming with the **Enter**-button.

Lamp assembly:


Lamp cover
Remove the screws X, Y and Z for re-lamping
X
A
WARNING!
Isolate electrically before re-lamping.
Lamp is hot! Risk of fire! Protect hands and eyes.
Wait at least 15min. before opening the covers
and removing lamp from the fixture.
B
Y
Maximum room temperature t=40°C
Minimum distance from flammable material d=0,5m.
Exterior surface temperature T=80°C.
Not for domestic use.
Z
C
Adjust lamp position by turning screws A, B and C
3 phillips screws "X,Y,Z"

Do not operate this fixture with opened housing-cover!

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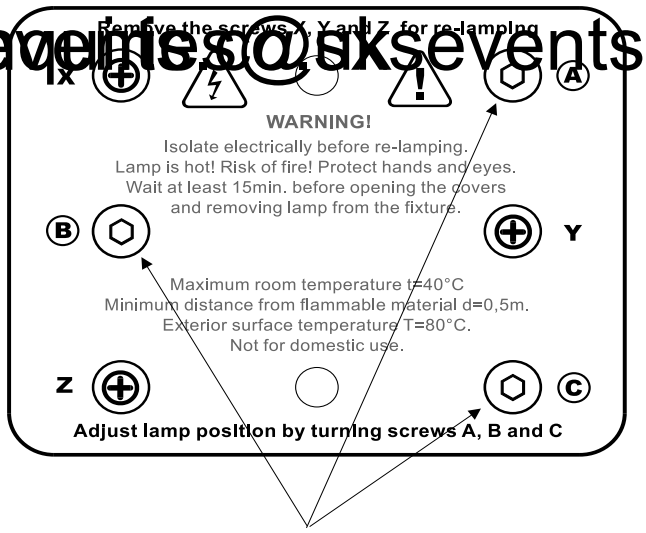

Remove the screws X, Y and Z for re-lamping
X
A
WARNING!
Isolate electrically before re-lamping.
Lamp is hot! Risk of fire! Protect hands and eyes.
Wait at least 15min. before opening the covers
and removing lamp from the fixture.
B
Y
Maximum room temperature t=40°C
Minimum distance from flammable material d=0,5m.
Exterior surface temperature T=80°C.
Not for domestic use.
Z
C
Adjust lamp position by turning screws A, B and C

3 adjustment screws "A,B,C"

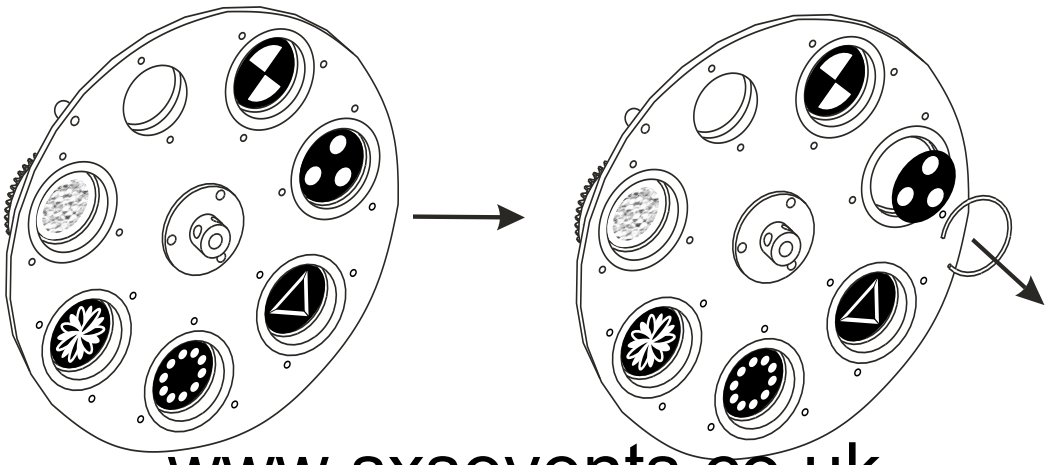
The SPOT 575 XT lampholder is aligned at the factory. Due to differences between lamps, fine adjustment may improve light performance.
Strike the lamp,open the shutter and the iris,set the dimmer intensity onto 100% and focus the light on a flat surface (wall).Center a hot-spot(the brightest part of the image) by using the 3 adjustment screws "**A,B,C**".Turn one screw after another a quarter-turn clokwise(counter-clokwise) to set the hot-spot in the center of the image.If you cannot detect the hot-spot,adjust the lamp until the light is evenly distributed.

4.3 Inserting/Exchanging gobos

DANGER!
Install the gobos with the device switched off only.
Unplug from mains before!

If you wish to use other forms and patterns as the standard-gobos, or if gobos are to be exchanged, open the top cover of the head by loosening 2 screws on the top cover.
Remove the fixation ring with an appropriate tool. Remove the gobo and insert the new gobo. Press the fixation ring together and insert it in the front of the gobo.

CAUTION!
Never unscrew the screws of the rotating gobo
as the ball bearing will otherwise be opened!



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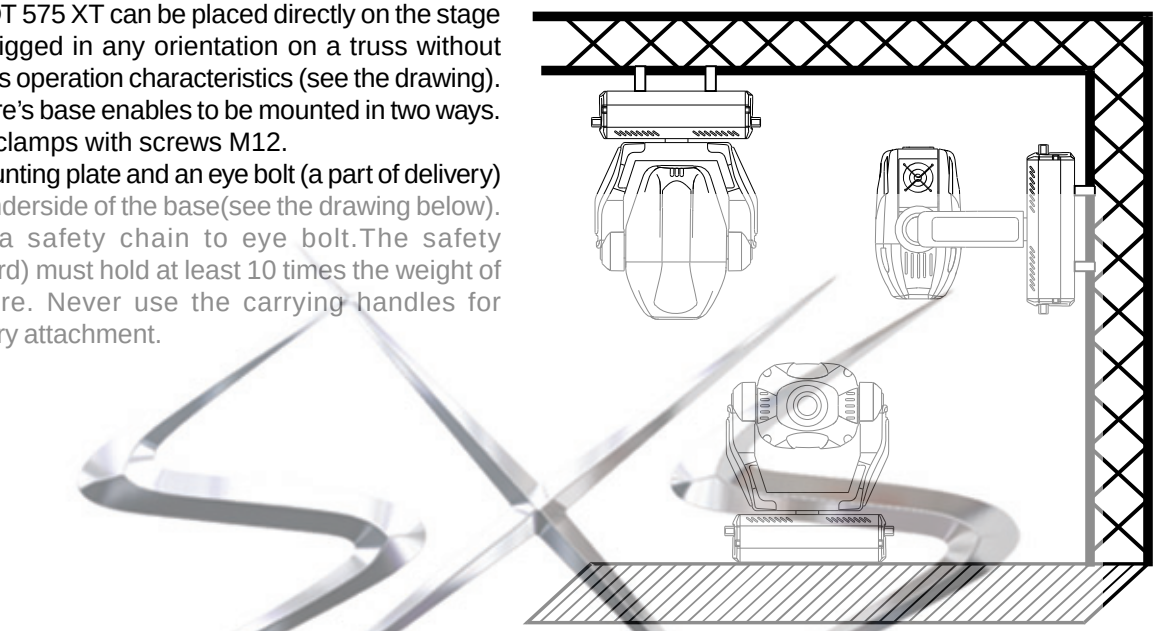
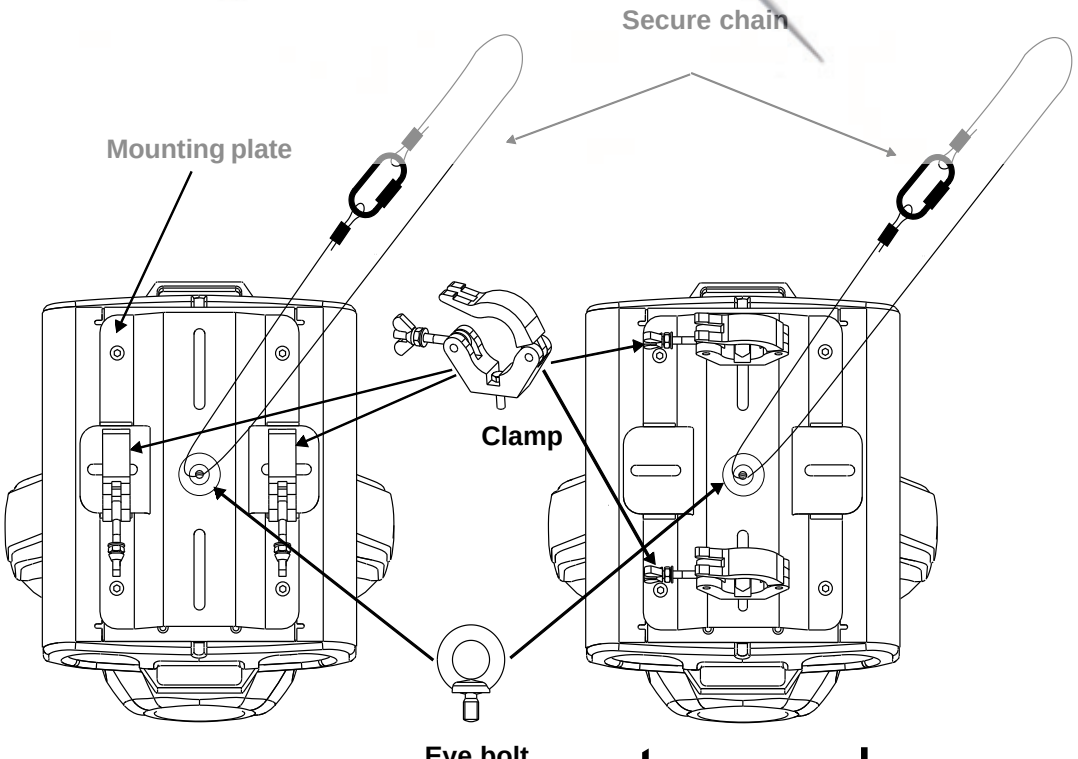
Danger of fire!
When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in between a distance of min. 0,7 m.

Warning ! Use 2 clamps to rig the fixture on the truss.
Follow the instructions mentioned at the bottom of the base.
Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.

The SPOT 575 XT can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics (see the drawing). The fixture's base enables to be mounted in two ways. Use the clamps with screws M12.
Fix a mounting plate and an eye bolt (a part of delivery) on the underside of the base(see the drawing below). Fasten a safety chain to eye bolt.The safety chain(cord) must hold at least 10 times the weight of the fixture. Never use the carrying handles for secondary attachment.





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4.5 Connection to the mains

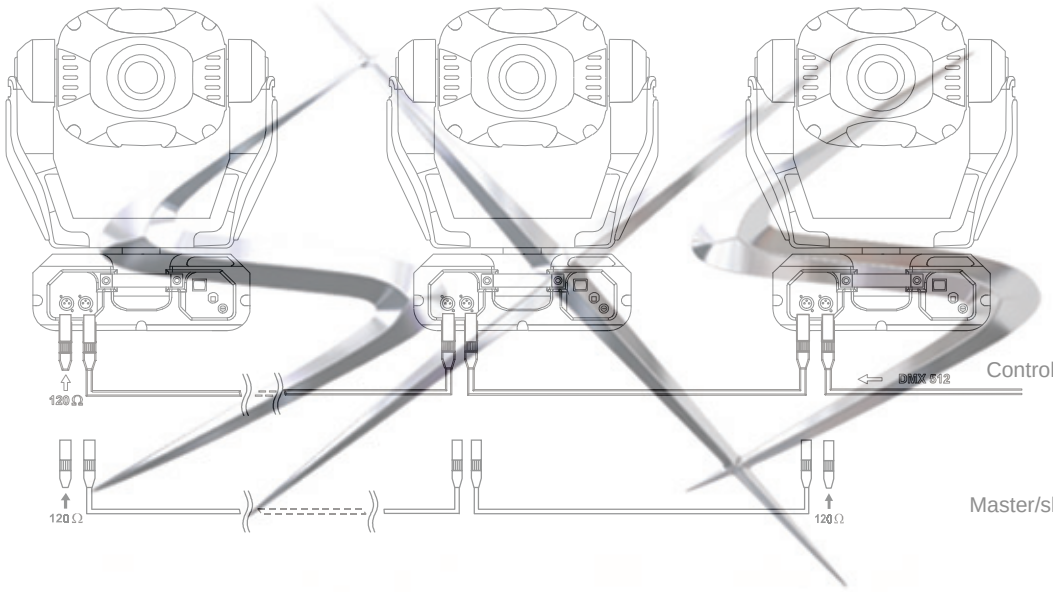
Verify the power supply settings before applying power!

If you wish to change the power supply settings,see the chapter Appendix.
Connect the fixture to the mains with the enclosed power cable and plug.
The earth has to be connected!

The occupation of the connection-cables is as follows:

Cable (EU)	Cable (US)	Pin	International
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	⏚

4.6 DMX-512 connection/connection between fixtures



Controller operation

Master/slave operation

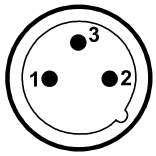
Only use a stereo shielded cable and 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

Occupation of the XLR-connection:

DMX - output
XLR mounting-socket:

1 - Ground
2 - Signal (-)
3 - Signal (+)

DMX-input
XLR mounting-plug:



1 - Ground
2 - Signal (-)
3 - Signal (+)

If you are using the standard DMX -controllers, you can connect the DMX-output of the controller directly with the DMX-input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.

Building a serial DMX-chain:

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 W resistor between Signal (–) and Signal (+) into a 3-pin XLR-plug and plug it into the DMX-output of the last fixture.

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Mode 1 channel	Mode 2 channel	3-bit channel	Value	Function	Type of control
1	1	1		**Pan**	
			0-255	Pan movement by 530°	proportional
2	3	2		**Tilt**	
			0-255	Tilt movement by 280°	proportional
3	2			**Pan fine**	
			0-255	Fine control of pan movement	proportional
4	4			**Tilt fine**	
			0-255	Fine control of tilt movement	proportional
5	5	3		**Speed of PAN/TILT movement**	
			0	Max. speed (tracking mode)	step
			1-249	From max. speed to min.speed (vector mode)	proportional
			250-252	Max. speed,(track.mode),black-out while color or gobo changes	step
			253-255	Max.speed (vector mode) ,black out while pan/tilt moving or color/gobo changes	step
6	6	4		**Lamp on/off,reset,fans speed control**	
			0-127	From max.speed of fan to min. speed of fan	proportional
			128-139	Lamp on,reset,	step
			140-229	No function	step
			230-239	Lamp off after 3 sec	step
			240-255	No function	step
7	7	5		**Colours 1**	
			0	Open/white	proportional
			13	Light blue	proportional
			26	Red	proportional
			38	Blue	proportional
			51	Light green	proportional
			64	Yellow	proportional
			77	Magenta	proportional
			90	Cyan	proportional
			102	Green	proportional
			115	Orange	proportional
			128-190	Forwards rainbow effect from fast to slow	proportional
			191-193	No rotation	step
			194-255	Backwards rainbow effect from slow to fast	proportional
			0-255	*Colour macro function (channel 8 set from 128-255)-64 different colours in following order:white, pink,magenta,red,orange,yellow,green,cyan,blue,UV*	*proportional*
8	8	6		**Colours 2**	
			0-11	White	step
			12-23	Deep red	step
			24-35	Deep blue	step
			36-47	Pink	step
			48-59	Cyan	step
			60-71	Magenta	step
			72-83	Yellow	step
			84-95	5600K correction filter	step
			96-107	3200K correction filter	step
			108-119	UV filter	step

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Mode 1 channel	Mode 2 channel	Mode 3 channel	DMX value	Function	Type of control
			64-127	Open/shutter + strobe	step
			128-255	Enable macro color function on channel 7	step
9	**9**	**7**		**3-facet prism rotatin control,Prism macros**	
			0	Open position (no prism)	step
			1- 63	Forwards rotation from fast to slow	proportional
			64	No rotation	step
			65-127	Backwards rotation from slow to fast	proportional
			128-255	***Prism/gobo macros***	
			128-135	Macro 1	step
			136-143	Macro 2	step
			144-151	Macro 3	step
			152-159	Macro 4	step
			160-167	Macro 5	step
			168-175	Macro 6	step
			176-183	Macro 7	step
			184-191	Macro 8	step
			192-199	Macro 9	step
			200-207	Macro 10	step
			208-215	Macro 11	step
			216-223	Macro 12	step
			224-231	Macro 13	step
			232-239	Macro 14	step
			240-247	Macro 15	step
			248-255	Macro 16	step
10	**10**	**8**		**Static gobos**	
			0-7	Open/hole	step
			8-15	Gobo 1	step
			16-23	Gobo 2	step
			24-31	Gobo 3	step
			32-39	Gobo 4	step
			40-47	Gobo 5	step
			48-55	Gobo 6	step
			56-63	Gobo 7	step
			64-71	Gobo 8	step
			72-79	Gobo 9	step
			80-223	***Shaking gobos with variable speed***	
			80-95	Gobo 1	step
			96-111	Gobo 2	step
			112-127	Gobo 3	step
			128-143	Gobo 4	step
			144-159	Gobo 5	step
			160-175	Gobo 6	step
			176-191	Gobo 7	step
			192-207	Gobo 8	step
			208-223	Gobo 9	step
			224-255	Gobo wheel rotation from slow to fast	proportional
11	**11**	**9**		**Rotating gobos**	
			0-31	Open/hole	step
			32-63	Rot.gobo 1 (metal)	step
			64-95	Rot.gobo 2 (metal)	step
			96-127	Rot.gobo 3 (metal)	step
			128-159	Rot.gobo 4 (dichroic)	step
			160-191	Rot.gobo 5 (dichroic)	step
			192-223	Rot.gobo 6 (glass)	step
			224-255	Rot.gobo wheel cont.rotation from slow to fast	proportional

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Mode 1 channel	Mode 2 channel	Mode 3 channel	Value	Function	Type of control
12	**12**	**10**		**Rotating gobo index,rotating gobo rotation**	
			0-127	Gobo indexing	proportional
			128-190	Forwards gobo rotation from fast to slow	proportional
			191-192	No rotation	step
			193-255	Backwards gobo rotation from slow to fast	proportional
13	**13**	**11**		**Iris**	
			0	Open	step
			1-179	Max.diameter to min.diameter	proportional
			180-191	Closed	step
			192-223	Pulse closing from slow to fast	proportional
			224-255	Pulse opening from fast to slow	proportional
14	**14**	**12**		**Focus,multistep zoom**	
			0-85	Zoom 15°-Continuous adjustment from far to near	proportional
			86-170	Zoom 18°-Continuous adjustment from far to near	proportional
			171-225	Zoom 22°-Continuous adjustment from far to near	proportional
15	**15**	**13**		**Shutter,strobe**	
			0-31	Shutter closed	step
			32-63	No function (Shutter open)	step
			64-95	Strobe-effect from slow to fast (max.10 flashes/s)	proportional
			96-127	No function (Shutter open)	step
			128-159	Pulse-effect in sequences from slow to fast	proportional
			160-191	No function (Shutter open)	step
			192-223	Random strobe-effect from slow to fast	proportional
			224-255	No function (Shutter open)	step
16	**16**	**14**		**Dimmer intensity**	
			0-255	Gradual adjustment of the dimmer intensity from 0 to 100%	proportional

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The fixtures are individually addressed (001-497) on a data link and connected to the controller.The fixtures respond to DMX signal sent from the controller.

6.1 DMX addressing

The control panel on the front panel of the fixture allows you to assign the DMX fixture address, which is defined as the first channel from which the SPOT 575 XT will respond to the controller.
If you set, for example, the address to channel 5, the SPOT 575 XT will use the channel 5 to 20 for control.
Please, be sure that you don't have any overlapping channels in order to control each SPOT 575 XT correctly and independently from any other fixture on the DMX data link.
If two, three or more SPOT 575 XT are addressed similarly, they will work similarly.
For address setting, please refer to the instructions under "Addressing"(menu "**A001"**).

Controlling:

After having addressed all SPOT 575 XT , you may now start operating these via your lighting controller.
Note: After switching on, the SPOT 575 XT will automatically detect whether DMX 512 data is received or not.If there is no data received at the DMX-input, the display will start to flash **"A001"** with actually set address.
This situation can occur if:
- the 3 PIN XLR plug (cable with DMX signal from controller) is not connected with the input of the SPOT 575 XT
- the controller is switched off or defective, the cable or connector is defective or the signal wires are swap in the input connector.

Note: It's necessary to insert the XLR termination plug (with 120 Ohm) to the last fixture in the link in order to ensure proper transmission on the DMX data link.

6.2 Remotely controllable functions

Lamp

The SPOT 575 XT is to be operated with a Philips MSD 575,MSR 575/2 or Osram HSR 575/2 lamp.
A relay inside of the SPOT 575 XT allows you to switch on and off the lamp via the control panel or via your DMX-controller without affecting the rest of the lighting.
To switch On/Off the lamp, please refer to "Switching On/Off the lamp " (menu "**LAMP**").
Note: It is also important to note, that the discharge lamp is cold restrike types, that means, that they have to be cold before re-striking. For this reason, you have to wait 5 minutes (max. speed of fan must be adjusted) after having switched Off the lamp before you can switch it back On again. If you try to switch On the lamp within 5 minutes after having switched it Off, the SPOT 575 XT will store this information and automatically ignite the lamp when the 5 minutes period has expired. The message **"HEAt"** will appear on the control panel display of the SPOT 575 XT. If the ignition of the lamp is seven times unsuccessful, on the display will appear **"LA.Er"**, meaning that the lamp could be damaged or even missed, or there could be a failure on the ignitor or ballast.

Static gobo wheel

The static gobo wheel includes 9 metal gobos ,gobo-shake function.

Rotating gobo wheel

The rotating gobo wheel includes 3 metal gobos, 1 glass gobo and 2 dichroic gobos rotating in both directions, indexable, rotating gobo wheel continuousli rotation from slow to fast. The rotating gobos can be interchanged.

3-facet rotating prism

The 3-facet prism rotating in both directions at different speeds,16 prism-gobo macros

Iris

Motorized adjustable iris,variable pulse effects.

Focus-multistep zoom

Motorized focus enables the beam to be focused anywhere on stage at different beam angles: 15°,18°,22°,provided by the special multistep zoom.

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Dimmer/Shutter unit

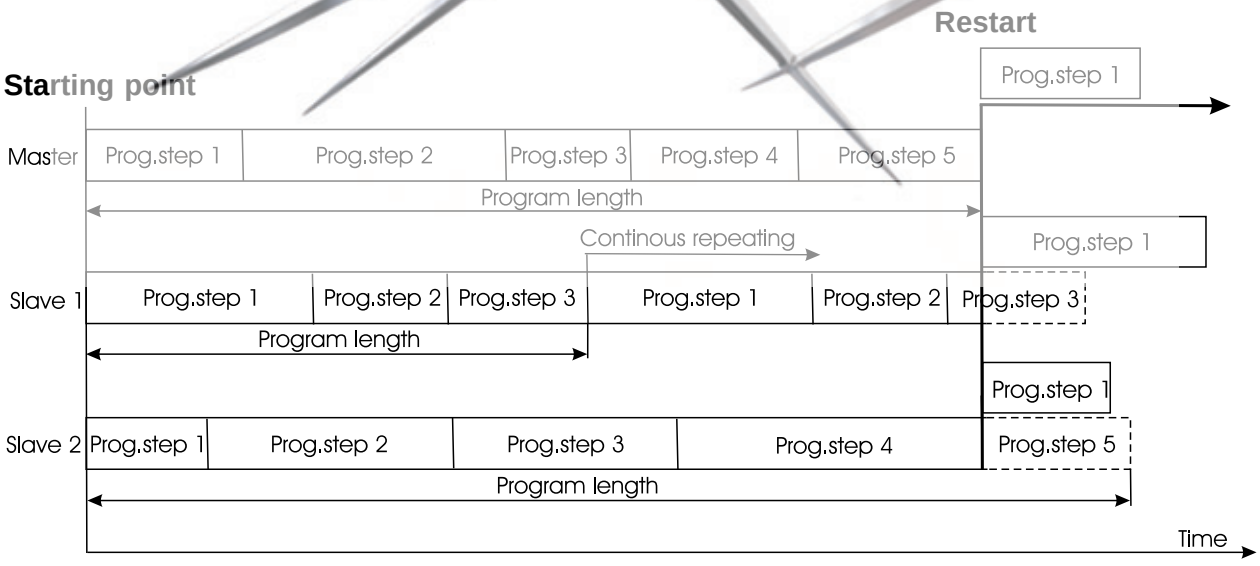
Smooth 0 - 100 % dimming is provided by the combined mechanical dimmer/shutter unit. This unit may also be used for strobe effect (1 - 10 flashes per second).

Fans

The SPOT 575 XT is cooled by three axial fans - two in the projector head and one in the base. The speed of the fan (and of course the noise) can be continuously reduced if very quiet performance is required.
By the Control Board using the **"FAnS"** function you can choose the 5 types of the fan speed operating modes.

7. Stand - alone mode

The fixtures on a data link are not connected to the controller but can execute pre-set programs which can be different for every fixture.To set the program to be played,see the "Stand-alone setting" **(** menu **"St.AL."**).
"Stand-alone operation" can be applied to the single fixture (the fixture may be set to the master /slave mode or controller mode) or to multiple fixtures operating synchronously.
Synchronous operation of multiple fixtures requires that they must be connected on a data link and one of them is set as a master (master mode) and the rest as the slaves (slave mode).The slaves are assigned to SLA1-SLA9 and on the certain slave address can be connected only one fixture.To set the fixture as the master or slave , see the "Addressing" (menu "**A001"**).
If the master fixture runs a reset,switches On/Off the lamp or plays test(program) ,all slaves will execute these acts too (e.g. if the master fixture has switched the lamp off,no slaves can switch the lamp on)!
You can't play or edit any programs on the slaves by their control panels if the master is switched on and connected to the master/slave chain.
The master fixture starts simultaneous program start in the other slave fixtures.All fixtures have a definite, synchronized starting point when playing back their programs.The number of running program is the same in all slaves and depends on the master's choice (menu "**St.AL.**").Every fixture runs its program repeatedly ,starting the program step No.1 when requested by the master .
For example:
If the slave fixture has a shorter program length, it will continously repeat its program until the master fixture finishes its own program and restarts its program running (slave 1- prog.step 3 will not be finished).
If the slave fixture has a longer program length, it will restart at prog. step 1 before it completes all its prog.steps (slave 2 - prog.step 5 will not be played)- see the picture bellow.



Note: Disconect the fixtures from the DMX controller before master/slave operating ,otherwise data collisions can occur and the fixtures will not work properly!
It's necessary to insert the XLR termination plug (with 120 Ohm) into the input of the master fixture and into the output of the last slave fixture in the data link in order to ensure proper transmission on the data link.

From the master's control panel is possible to control any slave in a master/slave chain.

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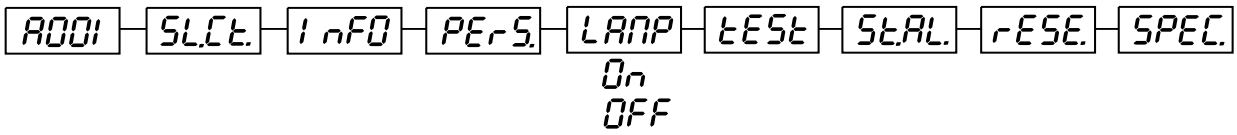
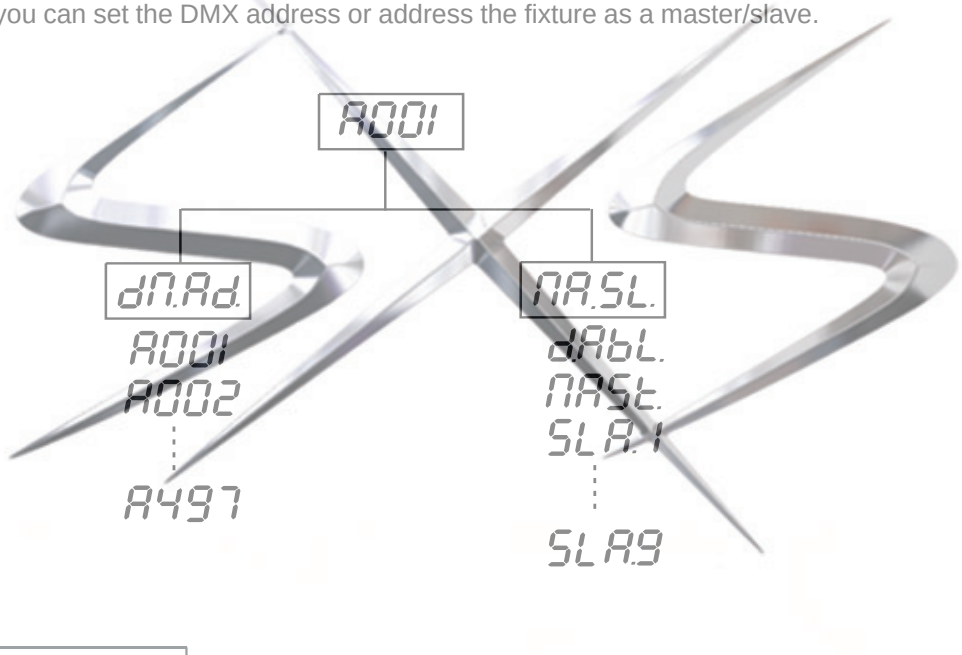
The control panel situated on the front side of the base, offers several features. You can simply set the DMX address, display the actual mode and the number of running hours, switch on and off the lamp, run a test, make a reset and also use many functions for setting and service purposes.
The main menu of the control panel is accessed by pressing the **[Mode]** button - press this one so many times until the display shows message **"A001"** (with actually stored address). Browse through the menu by the pressing **[Up]** or **[Down]** buttons - the display shows step by step these messages: **A001,SLCt, InFO,PErS, LAMP, tESt, StAL,rESE, SPEC**. Press **[Enter]** if you wish to select one of them. The functions are described in the following sections and the function hierarchy is shown below.



8.1 Addressing

By this menu you can set the DMX address or address the fixture as a master/slave.



DMX addressing

1. Press the **[Mode]-** button so many times until the display shows message **"A001"** (with actually stored address).
2. Press **[Enter]**-button and use the **[Up]** and **[down]** buttons to select"**dM.Ad.**"-menu.
3. Press**[Enter]**-button(the letter "A" flashes) and by **[Up]** and **[down]** buttons select required address (001 - 497), press **[Enter]**-button to confirm.
4. Select **"M.ASL."**-menu,press**[Enter]**-button and use **[Up]** and **[down]** buttons to select "**d.AbL.**"(no master or slave),press **[Enter]** to confirm.
5. Press the **[Mode]-** button.Choosen address is shown on the display.

If message **"A001"** (with actually stored address) flashes-no DMX data received at the DMX-input.

Master/slave adressing

1. Press the **[Mode]** button so many times until the display shows message **"A001"**(with actually stored address).
2. Press **[Enter]**-button and use the **[Up]** and **[down]** buttons to select **"MA.SL."**-menu.
3. Press**[Enter]**-button(display flashes) and select**"MASt"**(to set the fixture as the master in a chain of multiple fixtures) or **"SLA.1"-"SLA.9"**(to set the fixture to be a slave in a chain of multiple fixtures) and press **[Enter]**

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to confirm. If you want address no master or slave, select "dM.Ad."

4. Press [Up] or [Down] button to select "A001" address and press [Enter] to confirm.

If message **"MASt."** fast flashes-DMX signal is received at the DMX-input- disconnect DMX controller!

Only one fixture may be the master. Up to the 9 slaves may be connected to the master and on the certain address can be connected only one slave fixture (SLA1-SLA9).

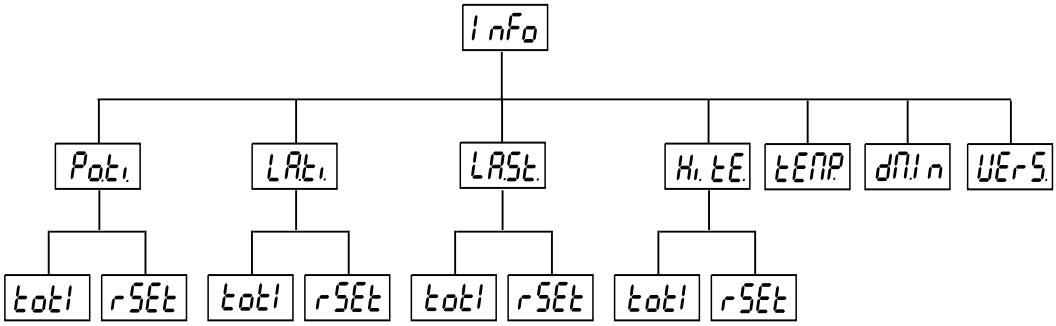
Note: Disconect the fixtures from the DMX controller before master/slave operating ,otherwise data collisions can occur and the fixtures will not work properly!
If the fixture is set as the master and DMX signal is connected to its input,the error massage "MAEr" will appear on its display and the fixture's address will be set to its DMX address in order to respond to DMX signal from the controller.
For example:
The master fixture has these address setting:"dM.Ad."-menu.....**.A017**
"MA.SL."-menu.....**MASt** (is displayed)

8.2 Slave control

This function allows you to control the slaves from the master's control panel in a master/slave operation.
Select this function from the main menu and press **[Enter]**-button.Browse the list of all connected slaves (**"SL.C.1" - "SL.C.9"**) by pressing **[Up]** or **[Down]** button.Select the desired slave and press **[Enter]**-button.The slave's control panel is available from the master's control panel.
If no slave is connected to the master,massages "SL.C.1","SL.C.2","SL.C3"..."SL.C.9" still round repeat.
Note: This function is available from the master fixture only.

8.3 Fixture informations

The menu allows you to read an useful information about the fixture as the lamp life,head temperature,software version, etc.
Press **[Up]** and **[Down]** buttons to select the desired option and press **[Enter]** to see the value or next submenu.



Power On time

-By this option you can read the total number of the operation hours since the
APOLLO STAXT has been activated.Press [Enter] or [Mode] to return to the menu.

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counter was last reset.Press **[Enter]** or **[Mode]** to return to the menu.In order to reset this counter to 0, you have to hold the **[Up]** and **[Down]** button and press the **[Enter]**-button.

Lamp On time

- This option enables you to read the total number of the operation hours with the lamp on since the SPOT 575 XT has been fabricated.Press **[Enter]** or **[Mode]** to return to the menu.

- The number of hours that the lamp has been powered On since the counter was last reset.Press **[Enter]** or **[Mode]** to return to the menu. In order to reset this counter to 0, you have to hold the **[Up]** and **[Down]**-button and press the **[Enter]**-button.

Lamp strikes

- By this option you can read the total number of the lamp strikes since the SPOT 575 XT has been fabricated.Press **[Enter]** or **[Mode]** to return to the menu.

-The number of the lamp strikes since the counter was last reset.Press **[Enter]** or **[Mode]** to return to the menu. In order to reset the counter to 0, you have to hold the **[Up]** and **[Down]**-button and press the **[Enter]**-button.

Max. fixture head temperature

- By this option you can read the max. temperature of the head inside since the SPOT 575 XT has been fabricated.Press **[Enter]** or **[Mode]** to return to the menu.

- Max. temperature of the head inside since the counter was last reset.Press **[Enter]** or **[Mode]** to return to the menu. In order to reset the counter to 0, you have to hold the **[Up]** and **[Down]**-button and press the **[Enter]**-button.

Current fixture head temperature

Temperature readouts of the head inside in Celsius. Inside temperatures below 80°C are not critical. 80° C and more lead to the lamp being switched off. Please note that the outside temperature should not exceed 40° C.

DMX values

Readout DMX values of each channel received by the fixture. Use the **[Up]** and **[Down]** buttons to select desired channel and press **[Enter]** to read its value coming to the fixture or **[Mode]** to cancel and return to the menu.

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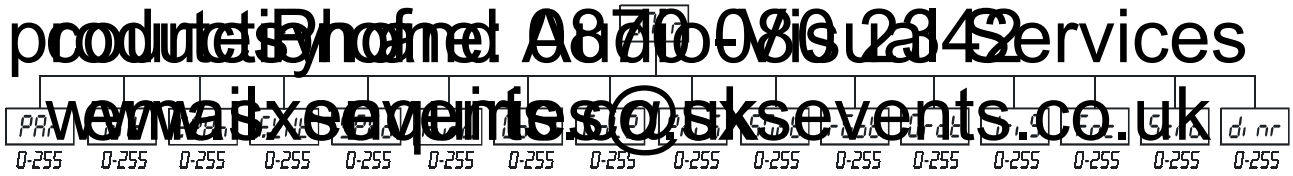
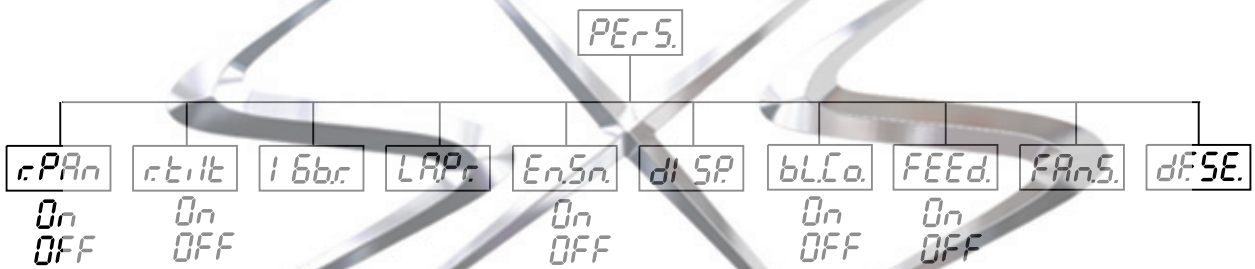


Software version

By this function you can read the software version of the display module. Press **[Enter]** to read its value or [Mode] to return to the menu.

8.4 Personality options

These options allow you to modify SPOT 575 XT operating behavior.
Press **[Up]** and **[Down]** buttons to select the desired option and press **[Enter]** to set the value or to see next submenu.



Pan reverse

This function allows you to invert the pan movement. Use the **[Up]** and **[Down]** buttons to select **"On"** if you wish this feature or **"Off"** if you don't wish this feature and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.

Tilt reverse

This function allows you to invert the tilt movement. Use the **[Up]** and **[Down]** buttons to select **"On"** if you wish this feature or **"Off"** if you don't wish this feature and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.

Movement resolution

By this function you can adjust the 16-bit movement resolution (Mod.1, Mod. 2) or 8-bit resolution (8bit).
Use the **[Up]** or **[Down]** keys to select the desired movement resolution and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.

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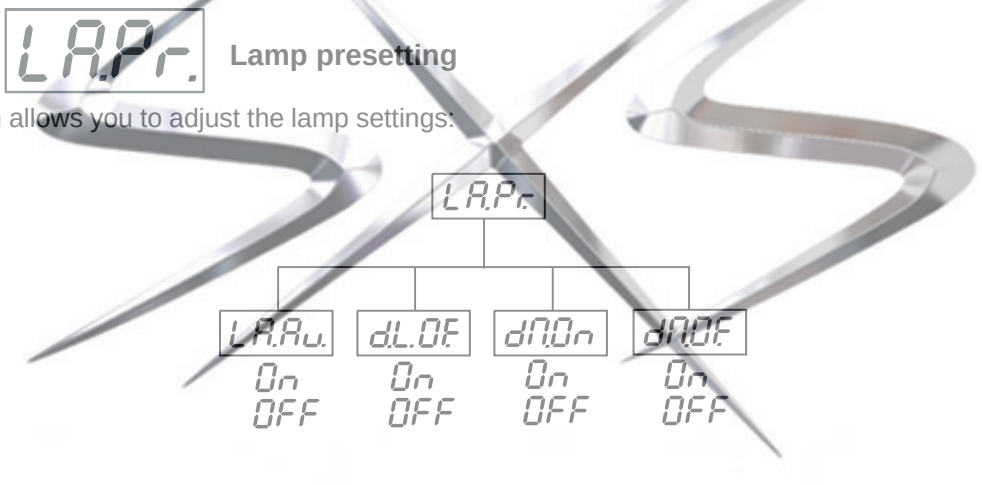
List of the channel settings:

Channel	Mode 1-16bit (default)	Mode 2-16bit	8 bit
1	Pan	Pan	Pan
2	Tilt	Fine Pan	Tilt
3	Fine Pan	Tilt	Pan/Tilt speed
4	Fine Tilt	Fine Tilt	Fans,Lamp On/Off
5	Pan/Tilt speed	Pan/Tilt speed	Colours 1
6	Fans, On/Off lamp	Fans, On/Off lamp	Colours 2
7	Colours 1	Colours 1	Prism
8	Colours 2	Colours 2	Static gobos
9	Prism	Prism	Rotating gobos
10	Static gobos	Static gobos	Rot.gobo rotation
11	Rotating gobos	Rotating gobos	Iris
12	Rot.gobo rotation	Rot.gobo rotation	Focus,Zoom
13	Iris	Iris	Shutter,Strobe
14	Focus,Zoom	Focus,Zoom	Dimmer
15	Shutter, strobe	Shutter, strobe	
16	Dimmer	Dimmer	

Please refer to the chapter "DMX- protocol" for detail description.

Note: If you adjust the 16 bit resolution (Mode 1 or Mode 2), the fixture will occupy 16 DMX channels, if you adjust the 8 bit resolution,the fixture will be operated by only 14 DMX channels.



LA.Pr. Lamp presetting

This function allows you to adjust the lamp settings:

LA.Au. Lamp On after switching the fixture On

This function enables to turn the lamp on automatically after switching the fixture on. Use the **[Up]** and **[Down]** buttons to select **"On"** if you wish to turn the lamp on automatically after switching the fixture on or **"Off"** if you wish the lamp off after switching on the fixture and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.

dL.OF. Lamp Off via DMX

This function allows you to switch off the lamp by DMX. Use the **[Up]** and **[Down]** buttons to select **"On"** if you want to switch off the lamp by DMX or **"Off"** if you don't want to switch off the lamp by DMX and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.

dN.On Lamp On if DMX is present

This function allows you to strike the lamp automatically after 26 seconds if DMX signal is present on the data link.If the ignition is unsuccessfull (e.g.lamp is too hot),the fixture will try to ignite the lamp after next 26 s.This process will repeat until the lamp lights.Use the **[Up]** and **[Down]** buttons to select **"On"** if you want to strike the lamp or **"Off"** if you don't want to strike the lamp and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.

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Switch Off DMX signal

This function allows you to switch Off the lamp automatically after 2 minutes if DMX signal is missing or the lamp is defective. Use the **[Up]** and **[Down]** buttons to select **"On"** if you want to switch Off the lamp or **"Off"** if you don't want to switch Off the lamp and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.

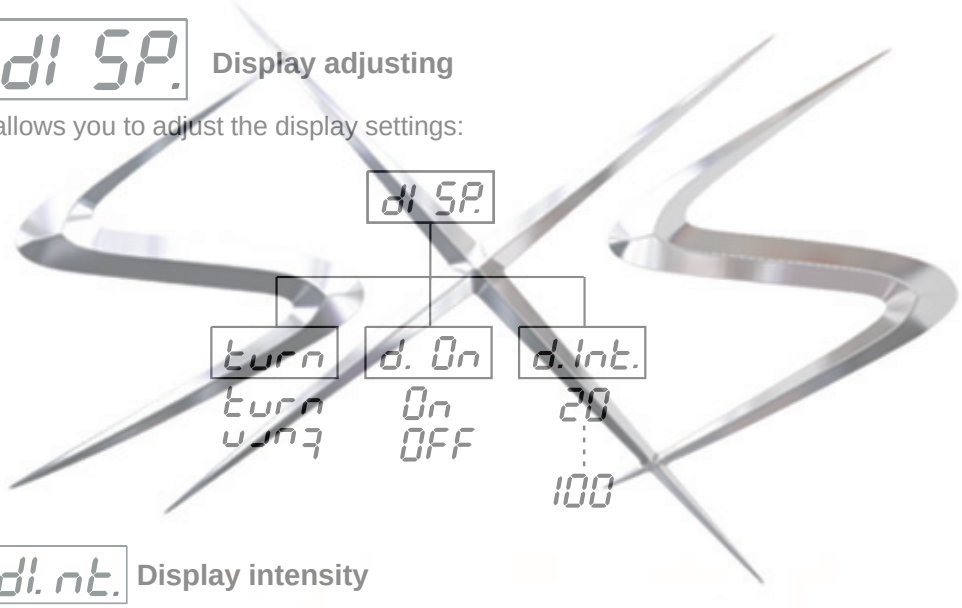
Switch On/Off the lamp light sensor

Use the **[Up]** and **[Down]** buttons to select **"On"** if you wish to switch the lamp light sensor on and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.**The option"On" is for the standard operation.**Use the **[Up]** and **[Down]** buttons to select **"Off"** if you wish to switch the lamp light sensor Off and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.

Important: The option"Off" is for "emergency operation" only if the lamp light sensor is defective and you will wait for a service intervertion! If the lamp light sensor is switched Off,the error messages "**LAEr,SnEr,HEAt**" will not appear on the display (only the message "HEAt" will appear if the lamp was turned off and on within 5 minutes) and at switching the lamp on the electronics will still try to ignite the lamp until it shines (even when the lamp is damaged or absent), on this account some electronics parts could be damaged!

Display adjusting

This function allows you to adjust the display settings:



Display intensity

With this function you can adjust the display-intensity from 20% to 100% . Use the **[Up]** and **[Down]** buttons to select the level of the display- intensity and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.

Display-reverse

With this function, you can rotate the display by 180°. Use the **[Up]** and **[Down]** buttons to select "normal display" or "display turned by 180°" and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.

Display-On

This function allows you to keep the display on or to turn off automatically 2 minutes after last pressing any button on the control panel. Use the **[Up]** and **[Down]** buttons to select **"On"** if you wish to keep the display on or **"Off"** if you wish to turn off automatically 2 minutes after last pressing any button on the control panel and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.

Blackout during movement correction

The function executes the blackout during the head movement correction (the moving head has lost its right pan/

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tilt-position for a short moment). Use the **[Up]** and **[Down]** buttons to select **"On"** if you want to execute the blackout function or **"Off"** if you do not want to execute the blackout function. Confirm your selection with **[Enter]** or press **[Mode]** to cancel and return to the menu.

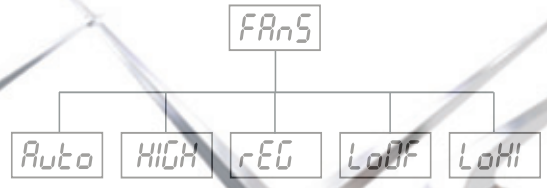
PAN/TILT-feedback

This function allows to return the mowing head to the required pan/tilt position after changing the position by external force (e.g.by stroke). Use the **[Up]** and **[Down]** buttons to select **"On"** if you wish to enable this function or **"Off"** if you wish not to return the mowing head to the required position and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.

Note: If the feedback was switched off ,the pan/tilt-position is changed by an external force and the feedback is switched on again,the moving head might not to be synchronized with the DMX signal.You have to make a reset in order to synchronize the moving head with the DMX signal.

Fan speed operating modes

By using this function you can choose 5 types of the fan speed operating modes. Browse through this menu by the pressing **[Up]** and **[Down]** buttons - the display shows step by step these messages: **"Auto,HIGH, reG, LoOF, LoHI"**. Press **[Enter]** if you wish to select one of them or **[Mode]** to cancel and return to the menu.



Continuous controlling of the fan speed without the DMX value

The fans automatically raise their speed in order to control inside temperature of the lighting, if the temperature inside increases about certain level (the low fan speed reduces the cooling of the lighting). This cycle can repeat several times until the temperature inside is on suitable level.The initial level of the fan speed can´t be adjusted by the DMX.

High (max.) speed of fans

The cooling fans work on max. speed (max. cooling)

Continuous controlling of the fan speed

This mode is similar to "Auto", but the initial level of the fan speed can be adjusted by the DMX.

Low speed/Switch Off the lamp operating

The fans keep the adjusted low speed until the temperature exceeds max. inside temperature of the fixture, then the SPOT 575 XT automatically switches off the lamp.

Low/high speed of the fan operating

The fans keep the adjusted low speed until the temperature exceeds max. inside temperature of the fixture, then the SPOT 575 XT automatically switches from low to high the fan speed.

Note: The modes "Auto" and "HIGH" don´t interact to the DMX value on the channel 6 (0-127)!

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Default settings

Press **[Enter]** to reset all fixture personalities (active adjusting functions) to the default values. On the display will appear **"rSt"** meaning that the fixture makes the reset. See the table of personality setting and their default positions.

Personality	Display	Default values (SHADED)
Pan reverse	rPAn	On OFF
Tilt reverse	rtilt	On OFF
Movement resolution	16br	Mod1 Mod2 8bit
Lamp On after switch. the fixture On	LAMu	On OFF
Lamp Off via DMX	dLOF	On OFF
Lamp On if DMX is present	dMOn	On OFF
Lamp Off if DMX is missing	dMOF	On OFF
Blackout during mov. correction	bLCo	On OFF
Display-On	d On	On OFF
Display intensity	d Int	20 40 60 80 100
Display- reverse	turn	turn usng
PAN/TILT feedback	FEEd	On OFF
Switch On/Off the lamp light sensor	EnSn	On OFF
Fan speed operating modes	FAnS	Auto HIGH rEC LoOF LoHI

8.5 Switching On/Off the lamp

Press the **[Mode]** button in order to access the main menu. Browse through the menu by pressing the **[Up]** and **[Down]** buttons until the display shows **"LAMP"**. Confirm by pressing **[Enter]** button.
Use the **[Up]** and **[Down]** buttons to select **"On"** to switch On the lamp and **"Off"** to switch Off the lamp and press **[Enter]** to confirm or **[Mode]** to cancel.

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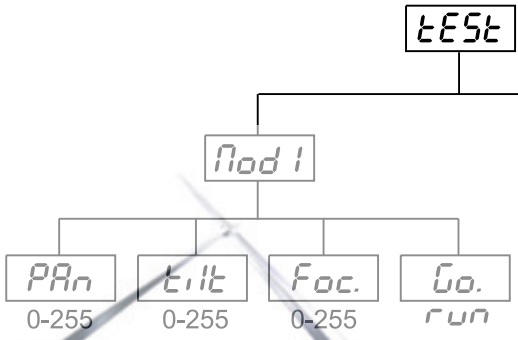
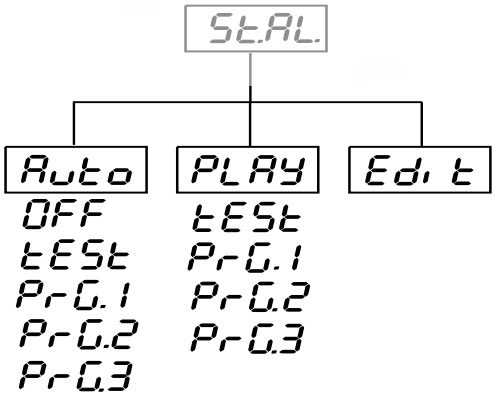
8.6 Test sequences

This function allows you to run a special demo-test sequences without an external controller, which will show you some possibilities of using SPOT 575 XT. Press **[Up]** and **[Down]** keys to select the **"Mod1"** or **"Mod2"** sequences. The **"Mod1"** is suitable for projections on the wall, ceiling or ground without any head-movement, the **"Mod2"** uses all SPOT 575 XT functions and therefore is good for a complete introduction of the fixture.Select "**Mod1**" or "**Mod2**" by **[Up]** and **[Down]** buttons and press **[Enter]** to confirm the choice.If the test program is running,messages "**run/test**" blink on the display.
If you want to pause the runnnig program in the required position, press the **[Enter]-**button(messages"**PAUS**"/"**test**" blink).To continue the program running,press the **[Enter]-**button again.



8.7 Stand-alone setting

This menu offers options for stand-alone mode as a selection of the playing program,programming and modifying current programs.



Presetting playback

This function allows you to select the the program which will be played in the stand-alone mode after switching the fixture On.Use the **[Up]** and **[Down]** buttons to select desired program ("**tESt**"- bilt-in program) or **"OFF"** if you don't want trigger any program after switching the fixture On and press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu.Selected program will be played continuously in a loop as long as it appears on the display.

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This option should be set "**OFF**" for all slaves in the master/slave chain by reason of the right program starts. For example, if you select for the fixture **PrG.3** in this menu and this fixture is set as a single fixture (master/slave or controller operating)- the fixture will run its program "**PrG.3**". this fixture is set as a slave in a data chain- the fixture will run its program according to the master(if the master runs its own program "**PrG.1**", the slave will run its own program "**PrG.1**"also).

Note:If the fixture operates in the controller mode (DMX controller is connected) and any program from this menu is selected ,in this case the fixture will not respond to the DMX controller after switching On and will play selected program.

Playing program

This function allows you to run a bilt-in program **"tESt"** and the 3 freely-programmable programs **"PrG.1,PrG.2,PrG.3"** .Press **[Up]** or **[Down]** buttons to select the desired program and press **[Enter] t**o run the program which will be played continuously in a loop**.**
If you want to pause the runnnig program in the required position, press the **[Enter]-**button(messages"**PAUS**"/" **program No**."blink).To continue the program running,press the **[Enter]-**button again.
Note:If the fixture operates in the controller mode (DMX controller is connected) and any program from this function is selected in this case the fixture will not respond to the DMX controller and will play selected program. You can't play programs on the slave fixtures from their control panels if the master fixture is switched On and connected to the slaves (playing is forced by the master).

Editing program

This menu item allows you to select a program to edit or create.The SPOT 575 XT has one built-in program (**"tESt**") and the 3 free programs,each up to 99 steps.
If the fixture is set as a master ,then you may edit any program in the slaves.You can't edit programs on the slave fixtures from their control panels if the master fixture is switched on and connected to the slaves (editing is possible by the master control panel only).
Procedure:
1. Press **[Up]** or **[Down]-**button to select the program you want to edit ("PrG.1" - "PrG.3") and press **[Enter]**.
2. Press **[Up]** or **[Down]-**button to select the desired fixture ("MASt." - "SLA.9") and press **[Enter]**-button.
3. Press **[Up]** or **[Down]-**button to select the desired program step ("St.01" - "St.99") and press **[Enter]**-button.
4 Press **[Up]** or **[Down]-**button to select the desired item and press **[Enter]-**button.Now you can edit by **[Up]** or **[Down]** buttons the DMX value for selected item:
   - **"P.End." -** a total number of the program steps,value 1-99 .**This value you must set before start programming**(e.g. if you want to create program with the 10 steps,set the value onto 10).
   - **"PAn" -** a pan,value 0-255
   - **"tilt" -** a tilt,value 0-255
   - **"F.PAn" -** a fine pan, value 0-255
   - **"F.tilt" -** a fine tilt,value 0-255
   - **"SPEd" -** a speed of PAN/TILT movement,value 0-255
   - **"Col1" -** a colour- wheel 1, value 0-255
   - **"Col2" -** a colour- wheel 2, value 0-255
   - **"Pris" -** a prism,macros,value 0-255
   - **"S.Gob" -** a static gobo,value 0-255
   - **"r.Gob." -** a rot.gobo,value 0-255
   - **"G.rot." -** a rot. gobo rotation,value 0-255
   - **"IriS" -** a iris,value 0-255
   - **"Foc." -** a focus ,value 0-255
   - **"Stro." -** a strobe,value 0-255
   - **"dimr" -** a dimmer, value 0-255
   - **"S.tim." -** a step time,value 0,1-25,5 seconds
   - **"COPY." -** a copying the current prog. step to the next prog. step .If the last prog.step is copied to the next prog. step ,parameter **"P.End"** is increased about 1 by itself (except step 99).
5. Press **Enter]-**button to confirm adjusted value .
6. Press **[Mode]-**button,select next prog. step and repeat this procedure (steps 4 and 6).

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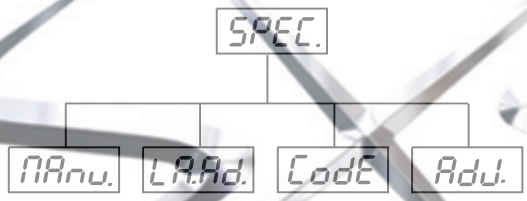
The editting programs "PrG1, PrG2, PrG 3" are saved to the current modified fixture (master or slave1-9).

8.8 Reset function

Press **[Enter]** button to run a reset. This option enables the SPOT 575 XT to index all effects (functions) and return to their standard positions.

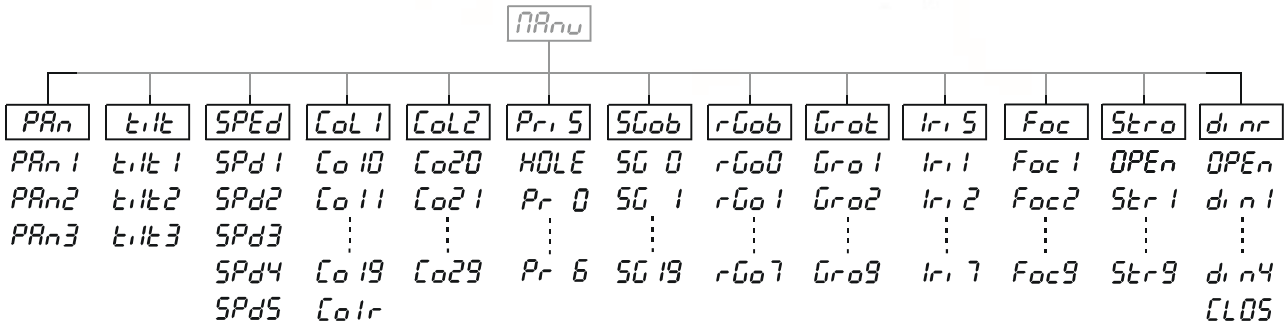
8.9 Special functions

Use the **[Up]** and **[Down]** buttons to browse through the special functions and select the one by pressing **[Enter]**.



Manual control of effects

The function allows you to control manually the channel functions of the fixture. Use the **[Up]** and **[D o w n]** buttons to select desired function and press **[Enter]** to adjust the effect or **[Mode]** to cancel and return to the menu.



Lamp adjustment

This function can be used when you make the fine adjustment of the lamp.If you select "**LAAd**" pressing by **[Enter]**-button ,all effects will be canceled,shutter will be opened and the dimmer intensity will be set onto 100%.By using the options "**PAn, tilt,Foc**" you can focus the light on a flat surface (wall) and perform the fine lamp adjustment.

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Fixture code

The option contains identification code (1-9999) for the fixture, which is used for the master/slave operation.

Adjusting the default positions of the colour and gobo-wheels

By this function you can calibrate and adjust the colour and gobo wheels to their standard/right positions. Use the **[Up]** and **[Down]** keys to browse through the adjusting menu - the display shows step by step these messages: **"PAn,FPAn, tilt,Ftilt, SPEd,Func, Col1, Col2, PriS, SGob, rGob, Grot, IriS, Foc, Stro, dimr, FCAL"** by which you can adjust the fixture to the required/desired position (0-255) before the function calibration. Then when the positioning is finished use the last **"FCAL"** function (Fixture calibration).

1. Calibration via the control board

Press **[Enter]** and the **[Up]** and **[Down]** keys in order to display the following messages: **"Col1, Col2, SGob, rGob,Grot"** for very smooth function calibration. Select one of them, press **[Enter]** and use the **[Up]** and **[Down]** keys in order to adjust their right value from 0 to 255. Then press **[Enter]** to confirm or **[Mode]** to cancel and return to the menu. This can be repeated for each calibration parameter if it is required. When the calibration is finished, it is necessary to use the **"ArES"** function in order to write the calibration values to the memory (EPROM) and to make a reset in order to check the newly adjusted positions of the colour and gobo wheels. When the reset of the fixture is finished, the display will show the **"FCAL"** message. Press **[Enter]** to repeat the calibration or **[Mode]** to return to the **"AdJ"** menu.

2. Calibration via the external controller

Press **[Enter]** and the **[Up]** and **[Down]** keys in order to display the following messages: **"Col1,Col2,SGob, rGob, Grot"** - calibration parameters. Select one of them and press **[Enter]**.
Now you can calibrate the colour 1,colour 2, static gobo and rotating gobo wheels by your controller. The DMX calibration protocol is described in the table.

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DMX Calibration protocol

DMX channel	Function	Smooth microstep movement	
1	Colour 1		Calibration 0-255
2	Colour 2		Calibration 0-255
3	Static gobo		Calibration 0-255
4	Rotating gobo		Calibration 0-255
5	Gobo rotating		Calibration 0-255
6	No function		
7	Colours 1	Standard protocol	
8	Colours 2	Standard protocol	
9	Prism	Standard protocol	
10	Static gobos	Standard protocol	
11	Rotating gobos	Standard protocol	
12	Gobo rotation	Standard protocol	
13	Iris	Standard protocol	
14	Focus	Standard protocol	
15	Strobe	Standard protocol	
16	Dimmer	Standard protocol	

After having calibrated required functions press **[Enter]** to confirm (or **[Mode]** to cancel and return to the menu without reset by the **"A.rES."** function) and use the **"A.rES."** function in order to write the calibration values to the memory (EEPROM) and to make a reset in order to check the new adjusted positions of the colour and gobo - wheels .

9. Error and information messages

HEAt

This message appears if you try to switch on the lamp within 5 minutes after having switched it off (the lamp is too hot). The message will appear on the display if the lamp doesn't ignite within 28 seconds. The SPOT 575 XT will store this information and automatically ignite the lamp when the 5 minutes period has expired.
Caution: The message is disabled if the lamp light sensor (function "En.Sn.") is switched Off (only if the lamp was turned Off and On within 5 minutes,the message "*HEAt*" will appear).

LA.Er.

The ignition of the lamp is seven times unsuccessful (the "*HEAt*" message appeared six times before), and the display shows **"***LA.Er***"**, meaning that the lamp could be damaged or even missed, the fixture is overheating (this can occur if the ambient temperature is 45° C or more) or there could be a failure on the ignitor or ballast.
Please place or replace the lamp, check the ambient temperature or contact your dealer if the situation was not caused by the lamp.
Caution: The message is disabled if the lamp light sensor function "En.Sn." is switched Off.

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FAn (Fan error)

The message informs you that the fixture was overheating and switched off. This message will appear on the display if the fan speed operating "LOOE" was selected.

MbEr

This messsage informs you that the main PCB does not communicate correctly with the Control Board.

CIEr (color-wheel 1 error)

This messsage will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The color-wheel is not located in the default position after the reset.

C2Er (color-wheel 2 error)

This messsage will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The color-wheel is not located in the default position after the reset.

rGEr (rotating gobo-wheel error)

The message will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The rotating gobo-wheel is not located in the default position after the reset.

iGEr (rotating gobo indexing error)

The message will appear after the reset of the fixture and if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The rotating gobo is not located in the default position after the reset.

SGEr (static gobo-wheel error)

This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The static gobo-wheel is not located in the default position after the reset.

PrEr (prism error)

This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The prism-wheel is not located in the default position after the reset.

FtEr

This error message informs you that the fixture was overheating (occured if the ambient temperature is 45° C or more) and that the relay switched off the lamp. This message will appear on the display until the temperature will be on a suitable level, then the display will show the massage ***"HEAt"*** meaning the lamp is too hot (explanation see above).

SnEr

This message appears if the lamp lighting sensor is failed.

PoEr

This message will appear if the fixture was shortly disconnect from the main.

PAEr (Pan-yoke movement error)

This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuits malfunction (sensors failed or magnet missing) or the stepping motor is defective. (Or its driving IC on the main PCB). The yoke is not located in the default position after the reset.

tiEr (TILT-head movement error)

This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping motor is defective. (Or its driving IC on the main PCB). The head is not located in the default position after the reset.

MA.Er.(Master error)

The message informs you that the fixture was addressed as a master and DMX signal is connected to its input.Disconnect the DMX controller from fixture's input and address the fixture as the master again.

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Power supply:

EU-model: Voltage:.....208/230/240V AC, 50/60Hz ~
Fuse:.....T 6.3A@230V
US-model: Voltage:.....100/120/208/230V AC, 50/60Hz ~
Fuse:.....T 10A@120V
Power consumption:.....900 VA

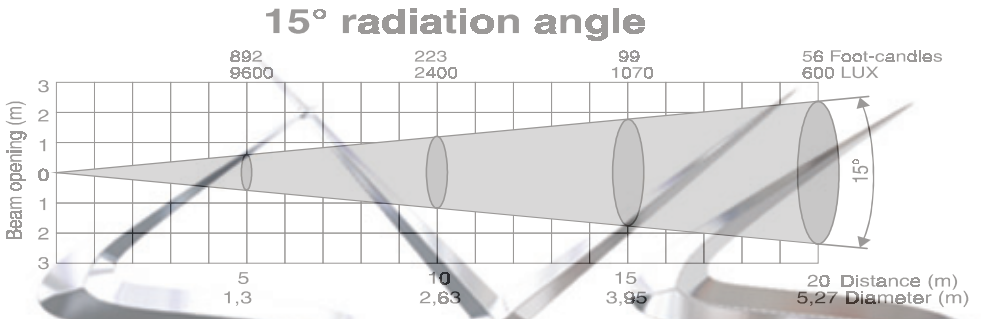
Lamp:

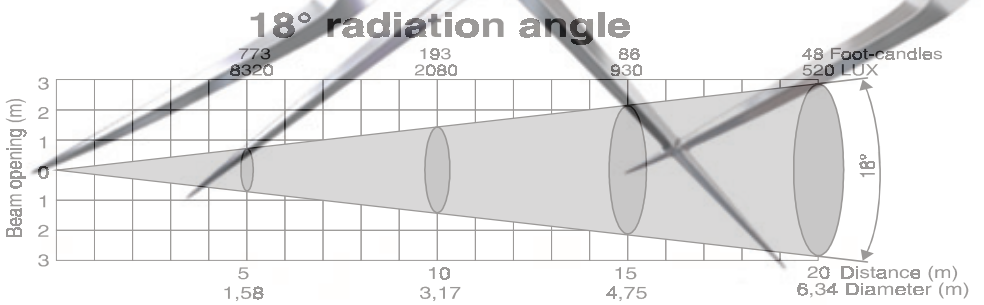
Philips MSR 575/2 95V/575W GX-9,5

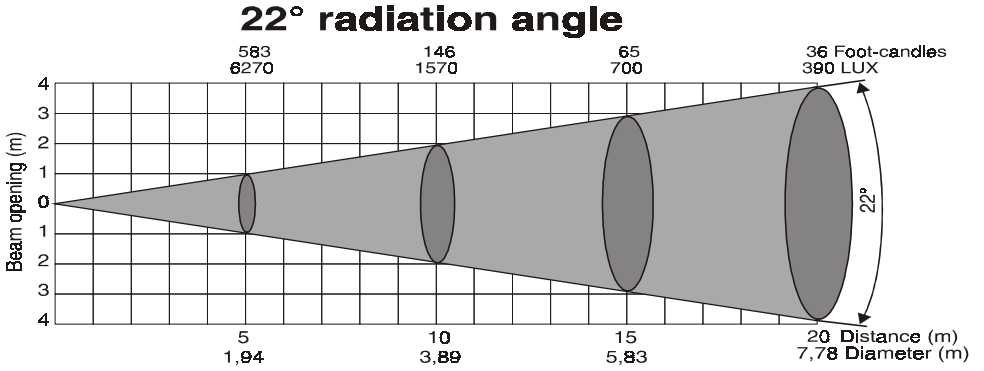
Optical System:

- High luminous-efficiency parabolic reflector
- focus lens and multistep zoom lenses system
-beam angles:15°,18°,22°
- All lenses are anti-reflection coated

Beampath:







Colours:

Colour wheel 1:

- 9 dichroic colour-filters plus white,colour-wheel with variable rotation speed in both directions

Colour wheel 2:

- 6 dichroic-colour filters,colour-temperature filters 3200 K and 5600 K, UV filter plus white

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Static gobos:

- 9 metal gobos plus an open position,outside diameter=26.9mm,image diameter=22.5mm aluminium,thickness=0.5mm

Rotating gobos:

- 6 interchanged gobos plus an open position:3 metal gobos, 1 glass gobo and 2 dichroic gobos rotating in both directions at different speeds
- Gobo indexing
- Rotating gobo-wheel cont. rotation
- Metal gobos:outside diameter= 26.9 mm, image diameter 22.5 mm,aluminium,thickness=0.5mm
- Dichroic gobos:outside diameter=26.8mm,image diameter=22.5mm,thickness=1.1mm,high temperature borofloat or better glass
- Glass gobo:outside diameter=26.8mm,max.thickness=4mm,high temperature borofloat or better glass

Strobe:

- Strobe effect with variable speed (1 - 10 flashes per second)

Dimmer:

- Smooth dimmer from 0 - 100 %

Prism:

- 3-facet-prism rotating in both directions at different speeds

Focus:

- Remotely controllable via DMX
- Motorized multi-step-zoom with three different apertures (15°,18°,22°)

Iris:

- Motorized (steplessly adjustable) iris for different beam diameters

Effects:

- 16 prism-gobo macros
- 9 static shacking gobos with variable speed
- preprogrammed variable iris pulse effects

Motors:

- 16 high quality stepping-motors controlled by microprocessors

Electronics:

-Addressing,special functions setting,effects calibration via control panel with 4-digit LED display
-Readout fixture and lamp usage,receiving DMX values,temperature, etc
-Built-in analyzer for easy fault finding,error messages
-Remotely switching of the lamp
-Bilt-in demo sequences
-Black-out while head moving or gobo/color changing
-Silent fans cooling,remotely controllable speed of fans
-Self-resetable thermo-fuse
-Digital serial input DMX-512
-16 control-channels (full 16 bit protocol):

Channel	Mode 1-16bit (default)	Mode 2-16bit	8 bit
1	Pan	Pan	Pan
2	Tilt	Fine Pan	Tilt
3	Fine Pan	Tilt	Pan/Tilt speed
4	Fine Tilt	Fine Tilt	Fans,Lamp On/Off
5	Pan/Tilt speed	Pan/Tilt speed	Colours 1
6	Fans, On/Off lamp	Fans, On/Off lamp	Colours 2
7	Colours 1	Colours 1	Prism
8	Colours 2	Colours 2	Static gobos
9	Prism	Prism	Rotating gobos

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10	Static gobos	Static gobos	Rot.gobo rotation
11	Rotating gobos	Rotating gobos	Iris
12	Rot.gobo rotation	Rot.gobo rotation	Focus,Zoom
13	Iris	Iris	Shutter,Strobe
14	Focus,Zoom	Focus,Zoom	Dimmer
15	Shutter, strobe	Shutter, strobe	
16	Dimmer	Dimmer	

Pan/Tilt

-Pan movement range 530°
-Tilt movement range 280°
-8/16 bit movement resolution
-Automatic Pan / Tilt position correction
-Maximum PAN-movement 530° in 2.65 s
-Maximum TILT-movement 280° in 1.68 s
-Remotely controllable speed of Pan/Tilt movement for easy programming

Rigging

-Stands directly on the floor
-Mounts horizontally or vertically with 2 clamps
-2 truss orientation
-Safety chain/cord attachment bolt

Temperatures

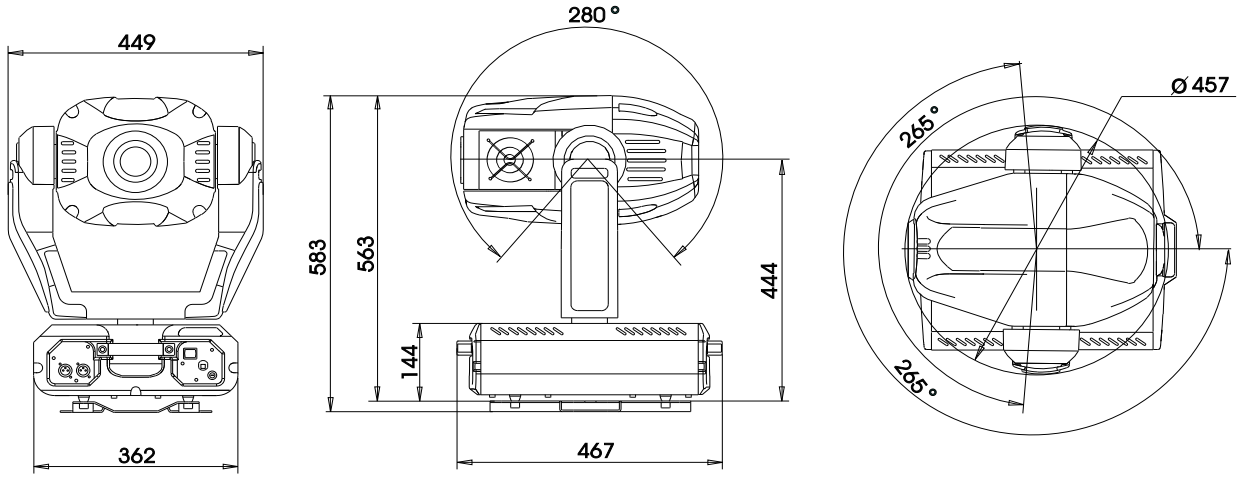
-Maximum ambient temperature t_a: 40° C
-Maximum housing temperature t_B (steady state): 80° C

Minimum distances

-Min.distance from flammable surfaces: 0,7m
-Min.distance to lighted object: 2,0m

Dimensions and weight

-Length of base (including handles):	379 mm
-Width of yoke:	428 mm
-Height (head horizontal):	476 mm
-Weight (net):	32,0 kg
-Shipping weight:	43,5 kg



Accessories

- Accessories gobo set 4 50500013

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10. Maintenance and Cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on the optical surfaces. Otherwise the fixture's light-output will significantly be reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life.
A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER !
Disconnect from the mains before starting any maintenance work

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The gobos may be cleaned with a soft brush. The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet.
The dichroic colour-filters, the gobo-wheel and the internal lenses should be cleaned monthly.

To ensure a proper function of the gobo-wheel , we recommend lubrication in six month intervals. The quantity of oil must not be excessive in order to avoid that oil runs out when the gobo-wheel rotates.

There are no serviceable parts inside the device except for the lamp and the fuse.
Please refer to the instructions under "Fitting/Exchanging the lamp".
Maintenance and service operations are only to be carried out by authorized dealers.

Replacing the fuse

If the lamp burns out, the fine-wire fuse of the device might fuse, too. Only replace the fuse by a fuse of same type and rating.

Before replacing the fuse, unplug mains lead.

Procedure:

1) Unscrew the fuseholder on the rear panel of the base with a fitting screwdriver from the housing (anti-clockwise).
2) Remove the old fuse from the fuseholder.
3) Install the new fuse in the fuseholder.
4) Replace the fuseholder in the housing and fix it.

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12. Appendix

12.1 Adjusting the power supply settings

Both the transformer and the ballast must be connected correctly for the local AC voltage and frequency. The wrong settings can cause poor performance or demage of the moving head.The factory settings are printed next to the power switch.

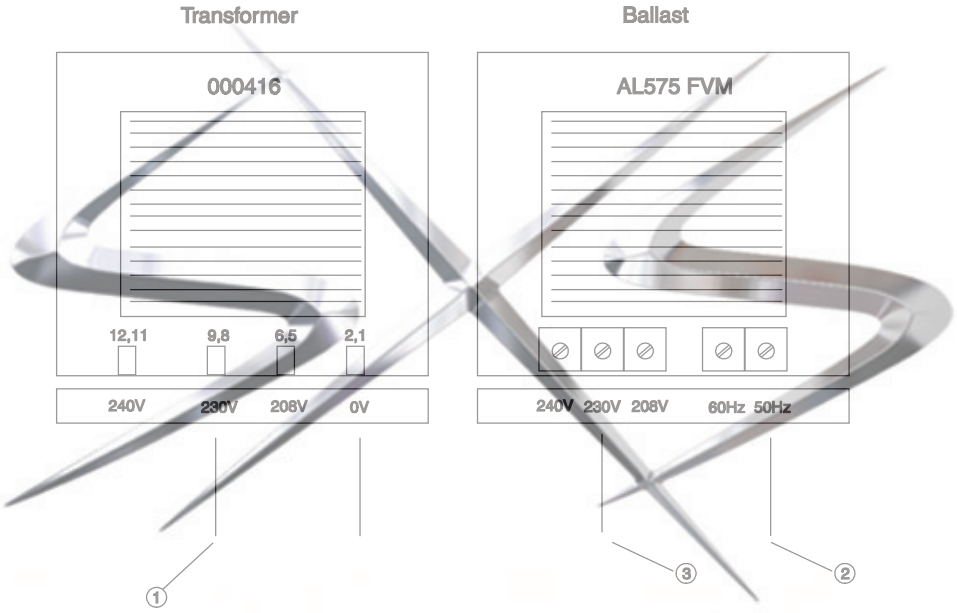
If you want to change the power supply settings,follow the instructions:

1.Disconnect the fixture from AC power.
2.Remove the top base cover (closest to the power cord) by loosening the 9 screws.
3.Move the wire ① on the transformer connection block to the position according to the desired voltage.
4.Move the wires ② and ③ on the ballast connection block to the position according to the desired frequency (voltage).
5.Close the base before applying AC power.

Examples:

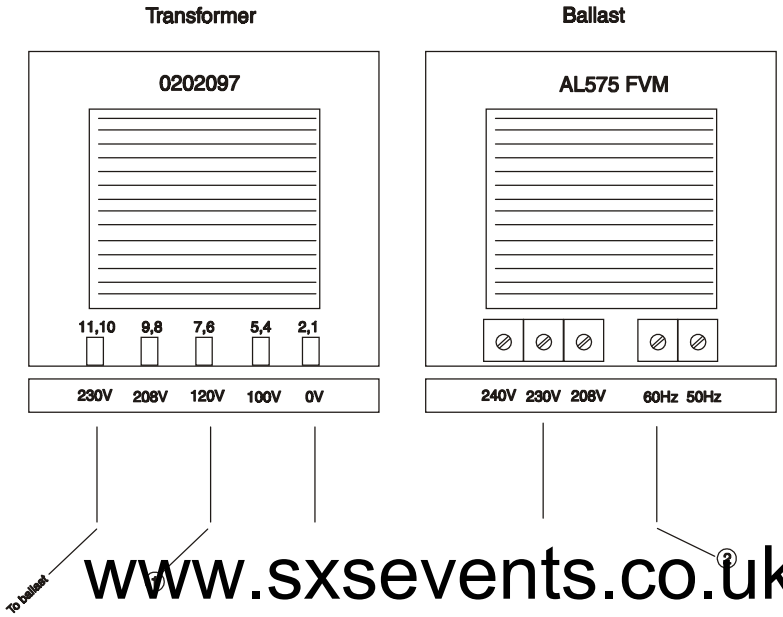
EU-version

Power supply settings: 230V/50Hz



US-version

Power supply settings: 120V/60Hz



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